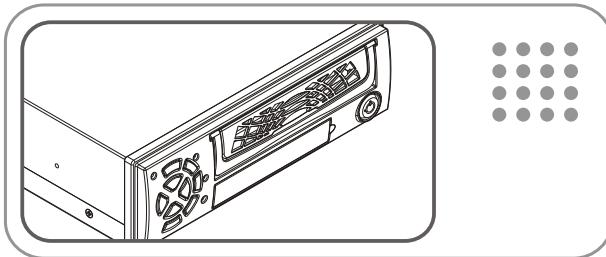




4 Channel Standalone DVR

USERS MANUAL





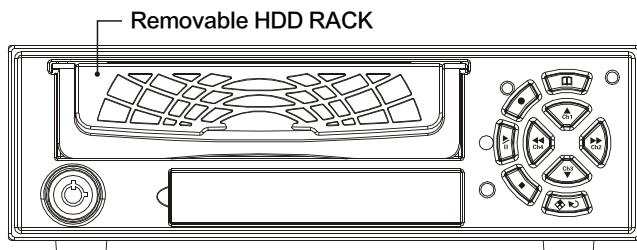
CONTENT

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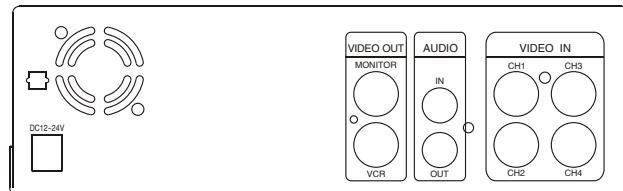
■ FEATURE

- 1、Definitely Standalone.
- 2、Real Time Refresh Rate.
- 3、Display While Recording.
- 4、Frame Recording & Quad Recording.
- 5、Support Audio Recording.
- 6、Small Size Design.
- 7、Anti-Shock HDD Mobile Rack.
- 8、Advanced MJPEG.
- 9、Manual / Motion / Programmed Recording.
- 10、Search by Time / Date.
- 11、Watch dog feature.
- 12、HDD Volume Indicator.
- 13、Internal motion detect feature.
- 14、Auto switching function.

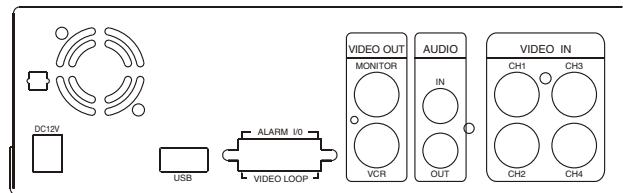
■ FRONT PANEL



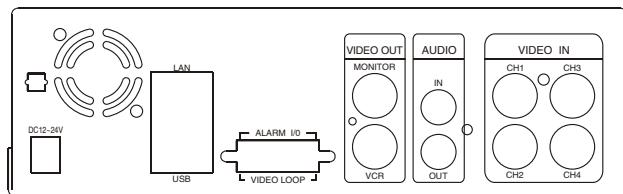
■ REAR PANEL



★ The standard for car usage



◆ The standard for home usage



● The advanced for home usage

■ CONTROL PANEL BUTTON

CONTROL BUTTONS in the VIEW MODE	
	▶ Menu: Enter the MENU MODE for the system setup. (Recording and Playback needs to be stopped before entering the MENU MODE)
	▶ Record: Activate the recording.
	▶ Play: Playback the latest video stream which you haven't seen before.
	▶ Auto Switching Channels: Enable / Disable the auto switching function. ▶ Quad Display: Monitor will be displayed as a quad display.
	▶ Channel 1: Channel 1 will be displayed as full screen.
	▶ Channel 2: Channel 2 will be displayed as full screen.
	▶ Channel 3: Channel 3 will be displayed as full screen.
	▶ Channel 4: Channel 4 will be displayed as full screen.
CONTROL BUTTONS in the RECORD MODE	
	▶ HDD USAGE: Show the usage of the hard drive.
	▶ Key lock: Push the button 5 times to lock/unlock the "STOP RECORDING" key. (While the "STOP" Key is locked, there will be a letter "L" showed on the left-down corner)
	▶ Stop: Stop the recording.
	▶ Auto Switching Channels: Enable / Disable the auto switching function. ▶ Quad Display: Monitor will be displayed as a quad display.
	▶ Channel 1: Channel 1 will be displayed as full screen.
	▶ Channel 2: Channel 2 will be displayed as full screen.
	▶ Channel 3: Channel 3 will be displayed as full screen.
	▶ Channel 4: Channel 4 will be displayed as full screen.
CONTROL BUTTONS in the MENU MODE	
	▶ Save Setup: This button needs to be pressed to save all the setting information and exit the setup pages after each setup is finished.
	▶ Select: Confirm the selection made or setting items.
	▶ UP: UP button for item selection.
	▶ RIGHT: RIGHT button for item selection. ▶ Select: Confirm all the selection made or setting items
	▶ DOWN: DOWN button for item selection.
	▶ LEFT: LEFT button for item selection. ▶ Save Setup: Save the setting information and exit the setup pages.

CONTROL BUTTONS in the PLAY MODE	
	► Search Mode: Enter the PLAYBACK EVENTS SEARCH MODE.
	► Play: Play the video stream in normal speed. ► Pause: Pause the playing.
	► Stop: Stop the playing, and go back to the VIEW MODE.
	► Channels Switching: Switch CH1→CH2→CH3→CH4 as full screen and press again to show the quad display.
	► Forward Fast: There are 3 speeds for fast forward. (Ff1→Ff2→Ff3)
	► Steps Play: Play the video stream frame by frame.
	► Rewind Fast: Rewind Fast function.

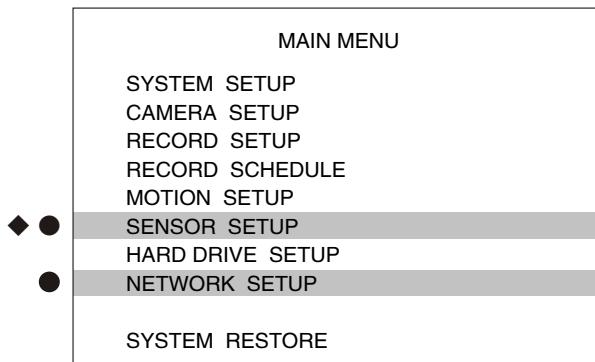
CONTROL BUTTONS in the PLAYBACK EVENTS SEARCH MODE	
	► Exit: Go back to the VIEW MODE.
	► Play: Playback the selected stream in normal speed.
	► Search Mode Switch: Switch between the TIME SEARCH MODE and the EVENTS SEARCH MODE.
	► Select: Confirm the selection made or setting items.(TIME SEARCH MODE)
	► UP: UP button for item selection.
	► RIGHT: RIGHT button for item selection.
	► DOWN: DOWN button for item selection. ► Select: Confirm the selection made or setting items. (TIME SEARCH MODE)
	► LEFT: LEFT button for item selection.

■ SPECIFICATIONS

Video Input		NTSC		PAL			
Video Input Channel		4CH Composite					
Video Output Channel		2CH Composite (VCR OUT / MONITOR OUT)					
Display Frame		120 fps (4x30 fps)		100 fps (4x25 fps)			
Recording Frame Rate(QUAD)		Max. 30 fps		Max. 25 fps			
Recording Frame Rate(EACH)		Max. 7.5fps(30 fps/4)		Max. 6.25fps(25 fps/4)			
Recording Mode		Continuous / Motion / Programmed					
Resolution	Display	720x480		720 x 576			
	Recording	640x224		640x272			
Compression Format	Advanced MJPEG	Low	12K Bytes / Frame				
		Normal	15K Bytes / Frame				
		High	20K Bytes / Frame				
HDD		Max. 400GB					
Audio Functions		1CH Audio Input/Output Real Time Recording And Playing					
Search	Mode	Time / Date / Events list					
Moition Detect		4CH motion detect					
Video loss display		YES					
Auto ch_switching		YES					
Buzzer Output		Video loss,Motion,Sensor					
Video adjust		Brightness,Contrast,Color					
Dimension		195mm x 265mm x 65mm (W x D x H)					
Alarm interface		◆ ●	4ch sensor input /1ch alarm output (N.O,N.C Max:AC120V /0.5A)				
Looping interface		◆ ●	4ch looping video output with 75 Ohm				
USB interface		◆ ●	USB 2.0 H.D. Backup				
LAN interface		●	MPG4 video output and DVR control				
Power type	★		DC 10V ~DC26V /about 15W(add HD)				
	◆ ●		DC 12V±0.5V /about 15W(add HD)				
Weight	★ ◆		About 2.8KG				
		●	About 2.9KG				

- ★ The standard for car usage
- ◆ The standard for home usage
- The advanced for home usage

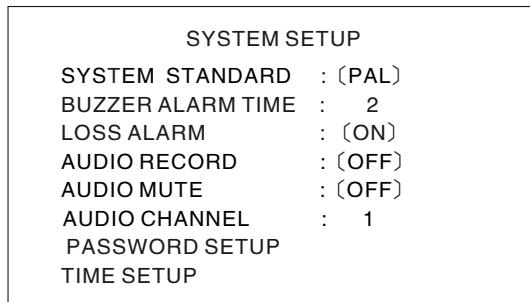
■ OPERATING MANUAL (MAIN MENU)



PRESS(UP,DOWN), THEN(SELECT)
PRESS(MENU) TO EXIT

◆ For the standard for home usage only
● For the advanced for home usage only

SYSTEM SETUP



PRESS(UP,DOWN), THEN(SELECT)
PRESS(MENU) TO EXIT

PASSWORD SETUP

Select this item to change password :



- (1) When the new password is accepted, you will receive a message that inform you. "PASSWORD CHANGED"
- (2) If the password was not accepted, you will receive a message that inform you. "NO PASSWORD CHANGED"

*Use the view control button on the front panel to input the umber.



is: "1" is: "2" is: "3" is: "4" is: "5"

TIME SETUP

Select this item to set up current time.

TIME SET

2004/12/17 18:00:30

PRESS(REW,FF), THEN(SELECT)
PRESS(MENU) TO EXIT

CAMERA SETUP

CAMERA SETUP

CAMERA	:	CH1
LIVE ON/OFF	:	ON
RECORD ON/OFF	:	ON
BRIGHT SETUP	:	5
CONTRAST SETUP	:	5
COLORS SETUP	:	5
AUTO SWITCHING	:	2

PRESS(UP,DOWN), THEN(SELECT)
PRESS(MENU) TO EXIT

RECORD SETUP

RECORD SETUP

RECORD SETUP	:	EACH
VIDEO QUALITY	:	NORMAL
RECORD FRAME RATE	:	30

PRESS(UP,DOWN), THEN(SELECT)
PRESS(MENU) TO EXIT

- (1) Record Setup:EACH MODE (frame recording),
Each Mode frame rate alternatives as follows:
Maximum : 7.5 fps each camera Totally :30 fps = 7.5 x 4 CH
QUAD MODE (quad recording).
In this mode 、、、 invalid.
- (2) Video Quality: video quality selection: High, Normal, Low
- (3) Record Frame Rate: QUAD MODE frame rate alternatives as follows:
Enable Audio Record → 30、15、10、7、5、4、3、2、1 fps.
Disable Audio Record → 30、15、10、7、5、4 fps.

RECORD SCHEDULE

RECORD SCHEDULE											
△	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	△									
:	:	:	:	:	:	:	:	:	:	:	:
0	3	6	9	12	15	18	21				

PRESS(REW,FF), THEN(SELECT)

PRESS(MENU) TO EXIT

(1)Range: 0~24 hrs.

(2)Set "T" for continuous recording.

(3)Set "M" for motion recording.

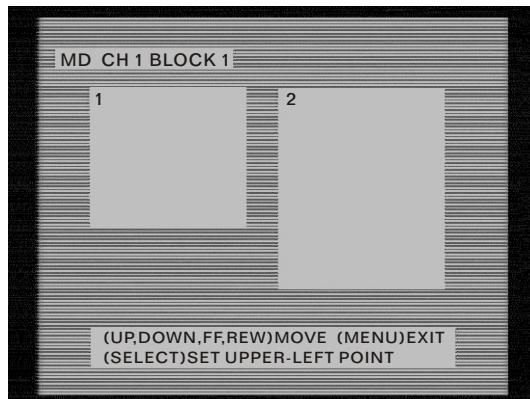
(4)Set up " - " to disable the recording.

MOTION SETUP

MOTION SETUP MENU											
CHANNEL-1	SENSITIV	0	(OFF)								
	AREA SET										
CHANNEL-2	SENSITIV	0	(OFF)								
	AREA SET										
CHANNEL-3	SENSITIV	3	.								
	AREA SET										
CHANNEL-4	SENSITIV	5	.								
	AREA SET										

PRESS(UP,DOWN), THEN(SELECT)

PRESS(MENU) TO EXIT





1. Setup the First Detective Area

First, Press (UP, DOWN, FF, REW) to Set the UPPER-LEFT Point of the First Detective Area.

Then, Press (UP, DOWN, FF, REW) to Set the DOWNER-RIGHT Point of the First Detective Area.

2. Setup the Second Detective Area

First, Press (UP, DOWN, FF, REW) to Set the UPPER-LEFT Point of the Second Detective Area.

Then, Press (UP, DOWN, FF, REW) to Set the DOWNER-RIGHT Point of the Second Detective Area.

3.Finish.

SENSOR SETUP

H/W SENSOR SETUP

CHANNEL-1	TYPY:NORMAL-OPEN
CHANNEL-2	NOT INSTALLED
CHANNEL-3	TYPY:NORMAL-CLOSE
CHANNEL-4	NOT INSTALLED

PRESS(UP,DOWN), THEN(SELECT)
PRESS(MENU) TO EXIT

HARD DRIVE SETUP

HARD DRIVE SETUP

OVERWRITE ENABLED	(YES)
MASTER HDD SIZE	80000MB
MASTER HDD USED	0MB0 %
MASTER HDD FORMAT	

(1)Overwrite Enabled

YES : Overwrite.

NO : Stop Recording.

(2)Master HDD Status

Indicates the usage of the HDD including volume & percentage

(3)Master Format

Select this item to format HDD, screen show:

PASSWORD INPUT (6) ----- 6 digits.

If password correct, the screen shows : “ Password Correct “

“ Hard Disk Formatted “

Otherwise, it shows: “ Password Incorrect “

* Factory default password:111111

* HDD must be formatted before installation, replacement & re-installation.

NETWORK SETUP

NETWORK MENU	
ACCEPT CLIENT	(YES)
MAC ADDRESS	00:00:00:73:37:31
IP ADDRESS	192.168.001.090
SUBNET MASK	255.255.255.000
GATEWAY	192.168.001.254
PORT NUMBER	14337 14338

PRESS(UP,DOWN), THEN(SELECT)
PRESS(MENU) TO EXIT

SYSTEM RESTORE

System Restore to the default value.

■ VIEW CONTROL

(1) You can use the following view control buttons to monitor the video from the cameras.

 Camera #1 (Ch1)  Camera #2 (CH2)

 Camera #3 (Ch3)  Camera #4 (CH4)

 QUAD Display, Enable / Disable the Auto switching function.

(2) View Control is only valid while the RECORD MODE is in the EACH MODE.

■ PLAYBACK CONTROL

(1) Press , and the system will play the latest event which you haven't seen before.

(2) Press , and the system will enter the PLAYBACK EVENTS SEARCH MODE.

(3) Each period is as four hour

SEARCH TIME	
04/04/01 02:47:56 – 04/04/01 02:47:56	
01 TIME	2004/12/10 02:47:50
02 TIME	2004/12/10 02:47:50
03 TIME	2004/12/10 02:47:50

Select Start Date/
Time to End Date/
Time

(UP, DOWN) MOVE (PLAY) PLAY (MENU) EXIT
(STOP) SELECT MODE (SELECT) CHANGE

Press ■ to switch between the TIME SEARCH MODE and the PLAYBACK EVENTS SEARCH MODE,

Press □ to exit.



(1) EVENTS SEARCH MODE :

Press ▲▼ choose one period, then press ► to play.

(2) TIME SEARCH MODE :

The signal " > " goes up to the "HARD DRIVER: MASTER" . Press ◀◀▶▶ to select items. Use ↗ select to change data, Then press ► to play.

(3) PLAYBACK :

- *Press ►► to speed forward. Continue to press ►► and show FF(Fast Forward)1, FF2, FF3 playing.
- *Press ◀◀ to rewind the playback.
- *Press ■■ to pause.
- *Press ■■ to stop.

■ RECORD CONTROL

(1) Press ● to start recording.

(2) During recording, the mark " * " appears in status of overwriting

■ 4CH RECORDING HOURS ON 80GB HARD DRIVE

*Thereinafter a rough estimate a table for reference only, recording data quantity can follow an image a variation a rate somewhat different.

Recording Results in NTSC Format			30 fps	15 fps	7 fps	1 fps
Video Signal	Display Format	Video Quality				
NTSC	QUAD MODE	High	36Hours	72 Hours	144 Hours	1,080 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,440 Hours
		Basic	58 Hours	116 Hours	232 Hours	1,740 Hours
	EACH MODE (Full Screen)	High	64 Hours	128 Hours	256 Hours	1,920 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,700 Hours
		Basic	112 Hours	224 Hours	448 Hours	3,360 Hours
Recording Results in PAL Format			25 fps	12 fps	6 fps	1 fps
Video Signal	Display Format	Video Quality				
PAL	QUAD MODE	High	38 Hours	76 Hours	152 Hours	950 Hours
		Normal	48 Hours	96 Hours	192 Hours	1,200 Hours
		Basic	60 Hours	120 Hours	240 Hours	1,500 Hours
	EACH MODE (Full Screen)	High	62 Hours	124 Hours	248 Hours	1,550 Hours
		Normal	90 Hours	180 Hours	360 Hours	2,250 Hours
		Basic	118 Hours	236 Hours	472 Hours	2,950 Hours



DVR PC VIEWER

- ◆ For the standard for home usage only
- For the advanced for home usage only

Introduction

This document is the Operation Manual for the 4 CH Stand Alone DVR PC Viewer.

The application will show you stream image stored in the Storage Device (HDD, CF card, USB Memory Stick, etc.), which was previously formatted and recorded by the DVR.

If any DVR-formatted Storage Device is connected to your PC, the application will automatically detect the Storage Device and show the recorded stream. You can also save the current screen to a JPEG file, and save the video/audio stream to a file ["MYS" file, the Vineyard's proprietary video/audio stream file format].

The application consists of two functional modules:

- ▶ DVR PC Viewer Shows stream stored in the DVR Storage Device.
- ▶ MYS File Player Plays captured stream file.

Terms in This Document

Storage Device	Hard Disk, CF Card, USB Memory Stick
The Application	DVR Storage Device PC Viewer
DVR Storage Device Storage Device which was previously formatted and recorded by the DVR base on Vineyard Technologies' DVR chip.	
OS	Operating System
CPU	Central Processing Unit
RAM	Random Access Memory
GUI	Graphic User Interface

Requirement

OS	OS of your PC should be Windows 2000/XP or later.
DirectX	Your PC should be equipped with DirectX 7.0 or later.

Recommendation

Operating System (OS)	The application runs only on Windows 2000 or Later (XP, 2003).
CPU	1.0 GHz or Higher.
RAM	256 MByte or greater.

■ Installation

A. Hardware Installation

Before executing the application, connect the DVR Storage Device to the IDE cable of your PC directly, or via USB adaptor

B. Software Installation

Run Setup.exe in the CD-ROM and follow the instruction to finish the installation.
[Make sure that the OS of your PC is Windows 2000 or later [XP or 2003].]

■ Execution

Just double click the icon of PC Viewer. The application will try to detect physical storage devices installed at your PC and search for DVR storage device(s) among them.

If there is DVR Storage Device, the application will automatically start playing. However, If the application fails to detect DVR Storage Device, which means that there is no DVR Storage Device installed to your system, it will show following error message and set the default working mode to MYS Player (See Section. 4).

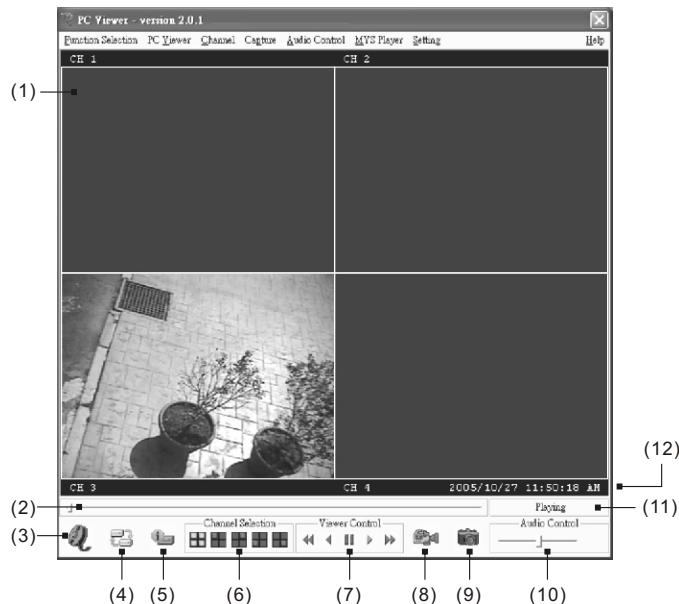


Fig.1. No DVR Storage Device Message

■ DVR PC Viewer

A. User Interface

The default page of the application is DVR Storage Device PC Viewer. The user interface is shown in Fig.2.



(1) Screen	(7) PC Viewer Playback Control
(2) Positioning Slider Bar	(8) Capture Stream Button [MYS]
(3) MYS Player Button	(9) Screen Capture Button [JPEG]
(4) DVR Storage Device Change Button	(10) Audio Control
(5) DVR Storage Device Information	(11) Viewer Playback Mode
(6) Channel Selection	(12) Stream Time Display

Fig.2. DVR Storage Device PC Viewer User Interface

B. Functions

i. MYS Player Button

If you want to see MYS file which was stored in your PC, press this button or press [F2] key.

ii. DVR Storage Device Change Button

When there are more than one DVR storage devices, this button will be activated. Press this button when you want to see video/audio stream stored in other DVR storage device. Fig.3 shows DVR storage device selection window.

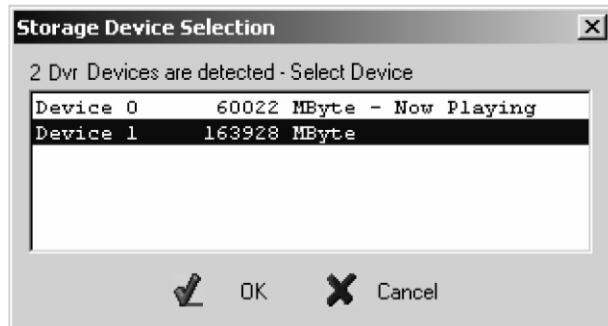


Fig.3. DVR Storage Device Selection Window

iii. DVR Storage Device Information Button

If you want to know how big is the DVR storage device is, or how much stream data is stored in the device, press this button. Fig.4 shows the DVR storage device information window.



Fig.4. DVR Storage Device Information Window

iv. Channel Selection Buttons

According to the record channel setting of the stream, each channel buttons will be enabled. Select any channel you want to see enlarged.



Fig.5. Channel Selection Buttons

Press  button (or [5 or Numpad 5] Key) to see all 4 channels at the same time.

Press  button (or [1 or Numpad 1] Key) to see channel 1 enlarged.

Press  button (or [2 or Numpad 2] Key) to see channel 2 enlarged.

Press  button (or [3 or Numpad 3] Key) to see channel 3 enlarged

Press  button (or [4 or Numpad 4] Key) to see channel 4 enlarged.

v. Viewer Control Buttons

Use Viewer Control Buttons to control viewer playback.



Fig.6. Viewer Control Buttons

*Press  button (or [<-] Key) to start fast reverse playback. By pressing this button again, you can adjust the speed. The maximum speed is 8 times faster than reverse playback.

*Press  button (or [<-] Key) to start reverse playback.

*Press  button (or [Space Bar]) to pause playback.

*Press  button (or [>] Key) to start normal playback.

*Press  button (or [>] Key) to start fast forward playback. By pressing this button several times, you can adjust the speed. The maximum speed is 8 times faster than normal playback.

vi. Capture Stream Button

If you want to capture stream, follow the stream capture procedure listed below:

* Using "Positioning Slider Bar" find the stream position you want.

* Make sure that the playback is in PAUSE mode, and the Capture Stream Button is enabled.

* Press the button, then the application will start capturing. During capturing, Capturing Indicator Window will be popped up.

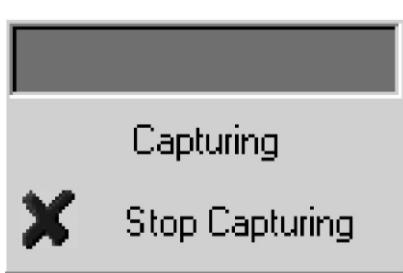


Fig.7. Capturing Indicator Window

* To stop capturing, press "Stop Capturing" button on the window.

The captured file (an MYS file) will be stored in the "Capture Directory." See the Application Setting Section, to know more about the "Capture Directory" setting.

vii. Screen Capture Button

If you wan to capture the screen, follow the screen capture procedure listed below:

- * Using "Positioning Slider Bar" find the stream position you want.
- * Make sure that the playback is in PAUSE mode, and the Screen Capture Button is enabled.
- * Press the button, then the application will start to make a JPEG file. When a JPEG file successfully created. The application let you know that the image file is created showing the file name and the "Capture Directory" path.

viii. Audio Control



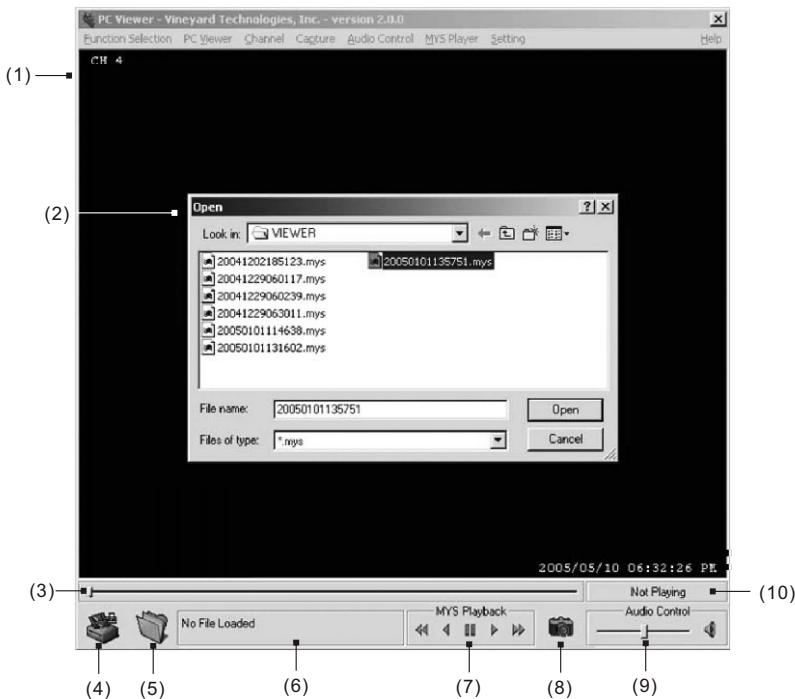
Fig.8. Audio Control Buttons

Press button to enable sound. Once sound is enabled, the button icon will be changed to . Press it to disable sound again. Using the slider bar, you can adjust the volume.

■ MYS Player

A. User Interface

Fig. 9 shows the user interface of the MYS player.



(1) Screen	(6) MYS file information
(2) MYS File Select Dialog	(7) MYS File Playback Control
(3) Positioning Slider Bar	(8) Screen Capture Button [JPEG]
(4) PC Viewer Button	(9) Audio Control
(5) File Open Button	(10) Playback Status

Fig.9. MYS File Player User Interface

B. Functions

i. PC Viewer Button

When you want to back to PC Viewer function, press this button.

ii. File Open Button

Press this button to select MYS file.

iii. MYS file information

When an MYS file selected and being played, the file name and the file size will be displayed in the MYS file information box.

iv. MYS file Playback Control Buttons

Use MYS file playback buttons to control the playback.



Fig.10. MYS file playback control Buttons

- * Press **◀◀** button (or [**<-**] Key) to start fast reverse playback. By pressing this button again, you can adjust the speed. The maximum speed is 64 times faster than reverse playback.
- * Press **◀** button (or [**<-**] Key) to start reverse playback.
- * Press **||** button (or [**Space Bar**]) to pause playback.
- * Press **▶** button (or [**->**] Key) to start normal playback.
- * Press **▶▶** button (or [**->**] Key) to start fast forward playback. By pressing this button several times, you can adjust the speed. The maximum speed is 64 times faster than normal playback.

v. Screen Capture Button

If you wan to capture the screen, follow the screen capture procedure listed below:

- * Using "Positioning Slider Bar" find the stream position you want.
- * Make sure that the playback is in PAUSE mode, and the Screen Capture Button is enabled.
- * Press the button, then the application will start to make a JPEG file. When a JPEG file successfully created. The application let you know that the image file is created showing the file name and the "Capture Directory" path.

vi. Audio Control



Fig.11. Audio Control Buttons

Press button to enable sound. Once sound is enabled, the button icon will be changed to . Press it to disable sound again. Using the slider bar, you can adjust the volume.

■ Application Setting

A. User Interface

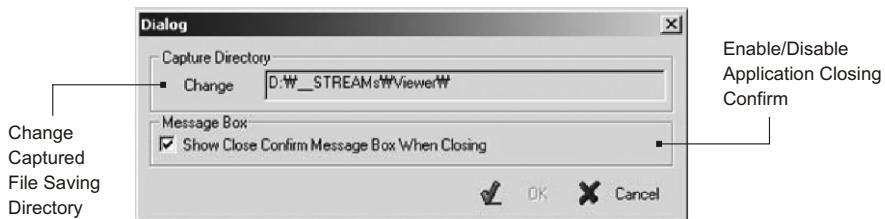


Fig.12. Application Setting Dialog

B. Functions

i. Capture Directory

You can specify Capture Directory. To change the path, press "Change" Button, select directory you want, and press OK again.

ii. Message Box

You can enable/disable the application close confirm message box.



Remote DVR Client

● For the advanced for home usage only

Introduction

This document describes the operational behavior of the 4 CH Stand Alone Remote DVR Client application. Using this application, you can access to your DVR, control it, and see what's happening remotely. Moreover, you can capture the video on your PC.

The application consists of four main functions:

- ▶ Remote Monitoring Shows incoming video/audio stream from your DVR.
- ▶ Remote DVR Management Manage your DVR remotely.
- ▶ Stream Capturing Captures incoming video/audio stream.
- ▶ Playback for the Captured Stream Plays the captured stream file.

When you capture the stream, the application will create one stream (YYYYMMDDHHMMSS.mys) file.

Terms in This Document

The Application	Remote DVR Client
OS	Operating System
CPU	Central Processing Unit
RAM	Random Access Memory
GUI	Graphic User Interface

Requirement

OS	OS of your PC should be Windows 2000/XP or later.
DirectX	Your PC should be equipped with DirectX 7.0 or later.

Recommendation

CPU	1.0 GHz or Higher.
RAM	256 MByte or greater.

■ Installation

A. Software Installation

Run Setup.exe in the CD-ROM and follow the instruction to finish the installation.

[Make sure that the OS of your PC is Windows 2000 or later [XP or 2003].]

■ Execution

Just double click the program icon. Then you will see a Remote Client Window. Fig.1 shows the Remote Client Window.



Fig.1. Remote DVR Client

■ Connection

Before you connect to your DVR, make sure that your DVR is correctly configured for the network connection. If your DVR is connected to the network and configured correctly, then you can connect to your DVR now. For more information, please refer to DVR operation manual.

A. Connection

To connect to your DVR, you should know following information:

- * The IP address of your DVR.
- * The Password.

If you have the IP address and the password, press icon at the bottom of the application (or press [Ctrl+C] key). Then you will see connection manager window.

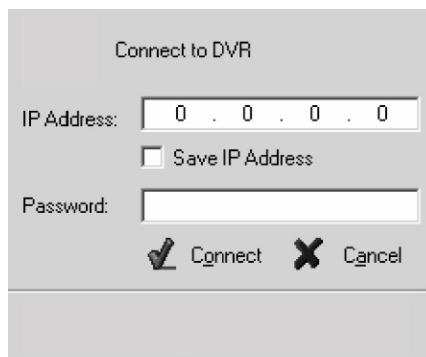


Fig.1. Connection Window

NOTE. The IP address of your DVR will be different.

Type the IP address and Password and press Connect button. You can save the IP address for future use by checking “Save IP.” Once an IP address saved, the IP address will be the default IP address.

If the client is connected to your DVR, you will see the current DVR screen image on the screen and the Status Window Show Current Connection Speed.



Fig.2. The Status Window [showing connection speed of 960 Kbps]

B. Disconnection

To disconnect, press  button (or press [Ctrl+C] key) again. Then you will see the confirmation window.



Fig.3. Disconnection Confirm Window

To disconnect, press “YES.” Press “NO” to maintain current connection. However, you can configure the application not to show the confirmation window if you want. See Section 8.A.ii for more information.

■ Channel Navigation

Once the application successfully connected to your DVR, you would see all four channels in the screen (the channel display may differ depending on the record channel setting of the DVR). Now, you can select a channel to see as full screen image.

A. Change Channel

Select one channel button shown in Fig.4.



Fig.4. Channel Navigation Buttons

You can also use keyboard to change view channel. The key is listed below.

- * [1] or [NUMPAD 1] channel 1
- * [2] or [NUMPAD 2] channel 2
- * [3] or [NUMPAD 3] channel 3
- * [4] or [NUMPAD 4] channel 4
- * [5] or [NUMPAD 5] all four channels

■ Audio Control

A. Audio Sounding/Mute

Press button, or press [Ctrl+M] Key, to activate audio when the client is connected to the DVR or the client is playing pre-recorded stream file.

Press button, or [Ctrl+M] Key to deactivate audio.

B. Volume Control

To adjust audio volume, use the audio volume slider or use [Up] and [Down] Key as well.

■ DVR Control

You can make your DVR state to start/stop recording and start/stop playback remotely. DVR control buttons are shown in Fig.5.

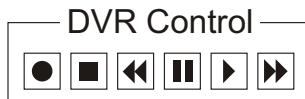


Fig.5. DVR Control Buttons

A. Recording

Press button (or press [Ctrl+Shift+R] key) to make your DVR start recording. Then you will see recording status on the Status Window. The Status Window will indicate the current status of your DVR as in Fig.6.



Fig.6. The Status Window [DVR Recording State]

Press button (or press [Ctrl+Shift+S] key) to make your DVR top recording.

B. Playback

If you want to start DVR playback, press button (or press [Ctrl+Shift+P] key) to get recorded event log. The client will receive event log from your DVR and show you the list. Fig.7 shows the DVR Event Log.

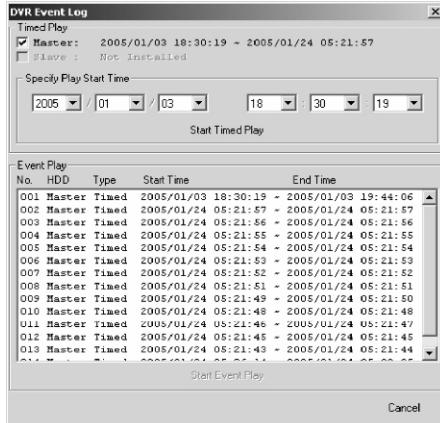


Fig.7. DVR Event Log.

There are two options for starting DVR playback.

i. Timed Play

The upper part of the window shows the time range of the stream stored in the DVR HDD.

You can specify the time when you are interested in. Fig.8 shows timed play.

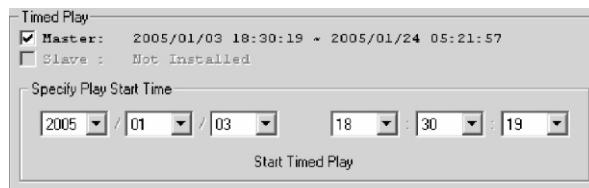


Fig.8. Timed Play Window

ii. Event Play

The lower part of the window is event list. To see an event, select the event and double click it or press "Start Event Play" Button.

No	HDD	Type	Start Time	End Time
001	Master	Timed	2005/01/03 18:30:19	~ 2005/01/03 19:44:06
002	Master	Timed	2005/01/24 05:21:57	~ 2005/01/24 05:21:57
003	Master	Timed	2005/01/24 05:21:56	~ 2005/01/24 05:21:56
004	Master	Timed	2005/01/24 05:21:55	~ 2005/01/24 05:21:55
005	Master	Timed	2005/01/24 05:21:54	~ 2005/01/24 05:21:54
006	Master	Timed	2005/01/24 05:21:53	~ 2005/01/24 05:21:53
007	Master	Timed	2005/01/24 05:21:52	~ 2005/01/24 05:21:52
008	Master	Timed	2005/01/24 05:21:51	~ 2005/01/24 05:21:51
009	Master	Timed	2005/01/24 05:21:49	~ 2005/01/24 05:21:50
010	Master	Timed	2005/01/24 05:21:48	~ 2005/01/24 05:21:48
011	Master	Timed	2005/01/24 05:21:46	~ 2005/01/24 05:21:47
012	Master	Timed	2005/01/24 05:21:45	~ 2005/01/24 05:21:45
013	Master	Timed	2005/01/24 05:21:43	~ 2005/01/24 05:21:44

Fig.9. Event Play Window

Once DVR play starts, the Status Window will show your DVR is now playing.



Fig.10. Status Window [DVR Play]

iii. Playback Buttons

Press button (or press [Ctrl+Shift+F] key) to start Fast Forward. [FF1 -> FF2 ->FF3 -> Ff1]

Press button (or press [Ctrl+Shift+V] key) to start Fast Rewind.

Press button (or press [Ctrl+Shift+U] key) to pause the playback.

Press button (or press [Ctrl+Shift+P] key) again to resume play when DVR is in FF,REW or PAUSE.

Press button (or press [Ctrl+Shift+S] key) to stop playback.

■ PC Capturing

You can capture incoming video/audio stream on your PC and play it later on. Fig.11 shows buttons for PC Capturing.



Fig.11. PC Capturing Buttons

A. Capturing

Press **[]** button (or press [Ctrl+R]) to start capturing. When it is capturing, the Status Window will show the current PC Capturing State.



Fig.12. Status Window [PC Capturing]

The captured video/audio stream will be saved in an MYS file. You can specify where you want the captured stream files will be stored.

The MYS file name has following information;

- * Year [4 digit] DVR time
- * Month [2 digit] DVR time
- * Day [2 digit] DVR time
- * Hour [2 digit] DVR time
- * Minute [2 digit] DVR time
- * Second [2 digit] DVR time.

B. Playback

Press **[]** button (or press [Ctrl+P]) to see list of captured stream file.

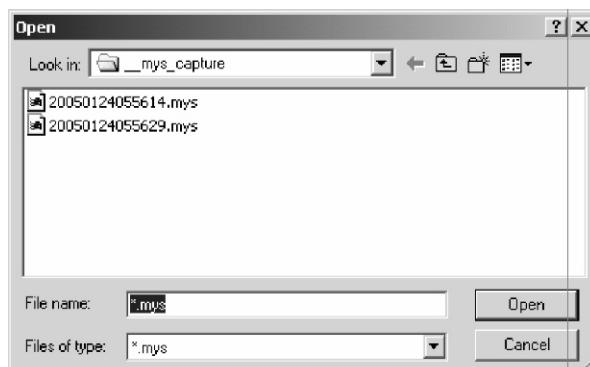


Fig.13. MYS file list

Select one mys file to play. Then the Status Window shows PC playback status



Fig.14. Status Window [PC Playback]

i. PC Playback Status

When the application is in PC Playback mode, you will see playback state indication at the bottom, left. It shows the current PC playback state and current position comparing the whole file size.

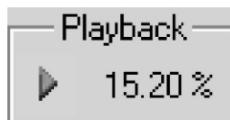


Fig.15. PC Playback Indicator

ii. Stream Position Bar

Also, when the application is in PC Playback mode, the Stream Position Bar will appear.

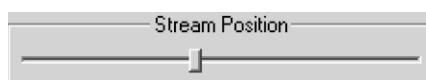


Fig.16. PC Playback Stream Position Bar

You can specify any position of the file, and the corresponding image will be displayed.

iii. Playback Buttons

Press  button (or press [->] Key) to start Fast Forward.

[FF2 -> FF4 -> FF8 -> FF16 -> FF32 -> FF64 -> PLAY -> FF2]

Press  button (or press [<-] Key) to start Fast Rewind.

[REW2 -> REW4 -> REW8 -> REW16 -> REW32 -> REW64 -> REV -> REW2]

Press  button (or press [Space Bar]) to pause the playback.

Press  button (or press [->] Key) to resume play when DVR is in FF, REW, REV or PAUSE.

Press  button (or press [<-] Key) to start reverse playback.

Press  button (or press [Ctrl+S] Key) to stop playback.

■ Image Size



You can change the image size from the DVR. The default value is "High" resolution. However, if you want to see images at higher frame rate, you may select "Low" resolution.

■ Configurations

The configuration of the client application and the configuration of the remote DVR can be changed using configuration managers. Note that remote DVR configuration is available when the client is connected to the DVR.

A. Change Client Setting

To change the configuration of the client application, select [main menu -> Configuration ->Configure Client] or press [F9] key.



Fig.17. Configuration Menu [Client Configuration]

Then, you will see following dialog box, which is Client Configuration Manager. With this Client Configuration Manager, you can change the configurations of the client application.

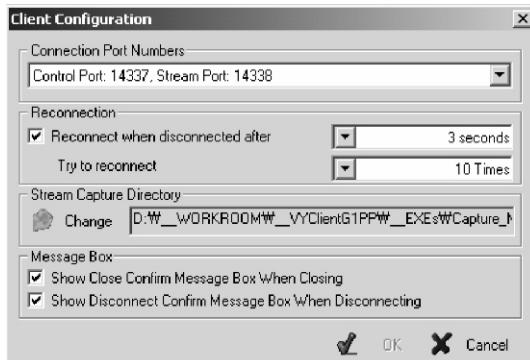


Fig.18. Client Configuration Window

i.Connection Port Numbers

The default connection port numbers are 14337 and 14338 for Control Message and Stream Data respectively. However, if you changed the DVR connection port number setting for any reason, you should change the connection port numbers at the client side as well. Choose appropriate port numbers.

[NOTE] If the port numbers the client use are different from that of DVR, the connection will not established.

ii.Reconnection

The connection between the client and the DVR can be closed for any reason. You can make the client to reconnect whenever the connection closed.

iii.Stream Capture Directory

You can specify the stream capture directory. To change, press "Change" button.

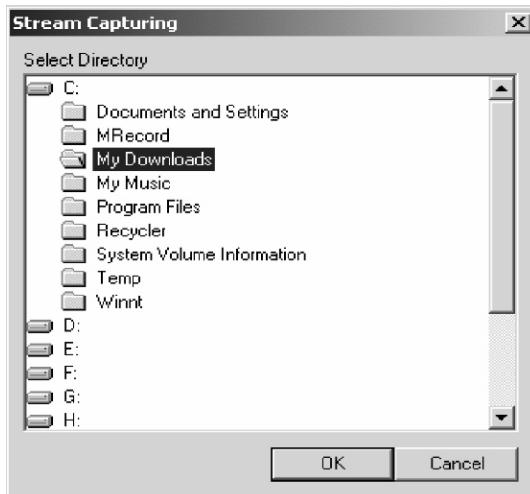


Fig.19. Stream Capturing Directory

Select folder and press OK to change directory.

iv.Message Boxes

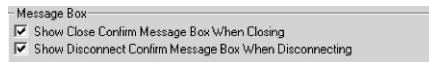


Fig.20. On/Off the confirm message boxes.

B. Change DVR Setting

To change the configuration of the remote DVR, select [main menu->Configuration->DVR Configuration] or press [F5] key.

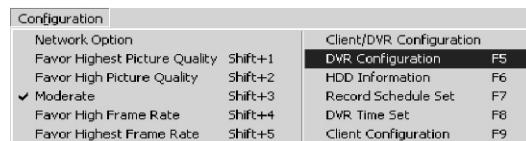


Fig.21. Configuration Menu [DVR Configuration]

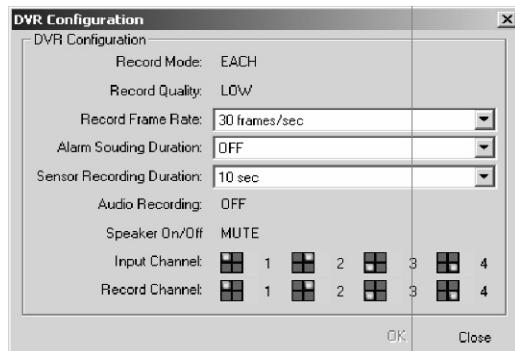


Fig.22. DVR Configuration Manager

i. Record Mode

You can change DVR recording mode. [EACH or QUAD]

ii. Record Quality

You can adjust stream picture quality. [HIGH NORMAL LOW]

iii. Record Frame Rate

You can change DVR recording frame rate.

iv. Alarm Sounding Duration

Select time duration of sounding alarm when a motion sensor is activated or the embedded motion detector detects any movement.

v. Sensor Recording Duration

Select time duration of sensor recording when a motion sensor is activated or the embedded motion detector detects any movement.

vi. Audio Recording

Enable/Disable DVR Audio Recording.

vii. Speaker On/Off

On/Off DVR Speaker

viii. Input Channels

You can change DVR input channels.

ix. Record Channels

Specify which channels are recorded among input channels.

If any of configuration change is made, "OK" button will be activated. Press "OK" button to Apply the change. Press "Cancel" button to close the window without saving the setting.

C. View DVR Hard Disk Status

To see the status of the HDD of the remote DVR, select
[main menu->Configuration->HDD Information] or press [F6] key.

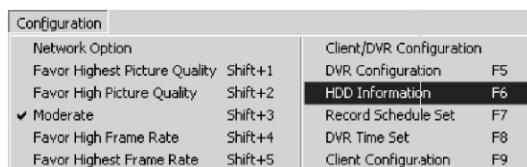


Fig.23. Configuration Menu [HDD Information]

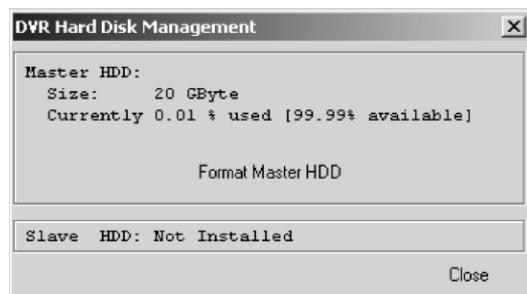


Fig.24. Hard Disk Status Viewer

If you want to format the HDD, press "Format Master (or Slave) HDD" button. You should know the DVR management password to format the HDD.

D.Change DVR Record Schedule

To change the record schedule of the remote DVR, select [main menu->Configuration->Record Schedule Set] or press [F7] key.

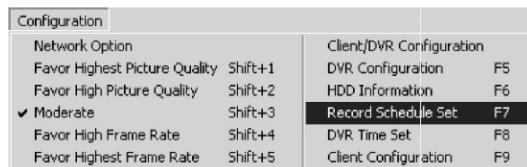


Fig.25. Configuration Menu [Record Schedule]

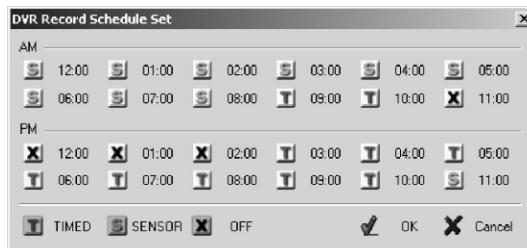


Fig.26. DVR Record Schedule Manager

If any change is made, the "OK" button will be activated. Press "OK" to change. Press "Cancel" to close the window without changing the DVR record schedule.

E. Change DVR Time

To Change DVR Time of the remote DVR, select [main menu->Configuration->DVR Time Set] or press [F8] key.

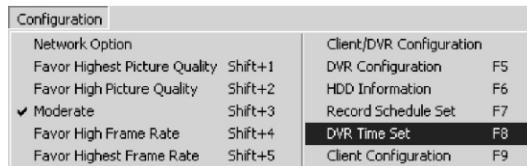


Fig.27. Configuration Menu [DVR Time Set]

Select "Change DVR Time" to change the DVR time.

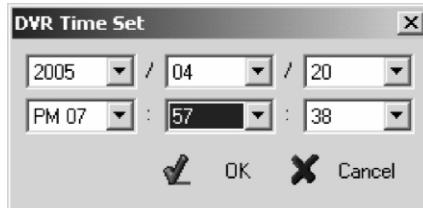


Fig.28. DVR Time Set Window

If any change is made, the "OK" button will be activated. Press "OK" to change the time.
Press "Cancel" to close the window without changing the DVR time.

F. Network Option

Configuration	
Network Option	
Favor Highest Picture Quality	Shift+1
Favor High Picture Quality	Shift+2
<input checked="" type="checkbox"/> Moderate	Shift+3
Favor High Frame Rate	Shift+4
Favor Highest Frame Rate	Shift+5

Fig.29. Network Options

You can change the stream transmission mode setting; Select one of following five transmission modes:

► Favor Highest Picture Quality [Shift+1]

In this mode, the DVR is supposed to send highest quality image stream, requiring more transmission bandwidth. Therefore, the frame rate may decreases.

It is not recommended not to select this option when you connect to your DVR via Internet.

► Favor High Picture Quality [Shift+2]

In this mode, the DVR will trying to send relatively high quality image stream to the client. Since it requires more bandwidth than "Moderate", the frame rate will be lower.

► Moderate [Shift+3] - Default

In this mode, the DVR will trying to send image stream according to network status changing the image quality and frame rate.

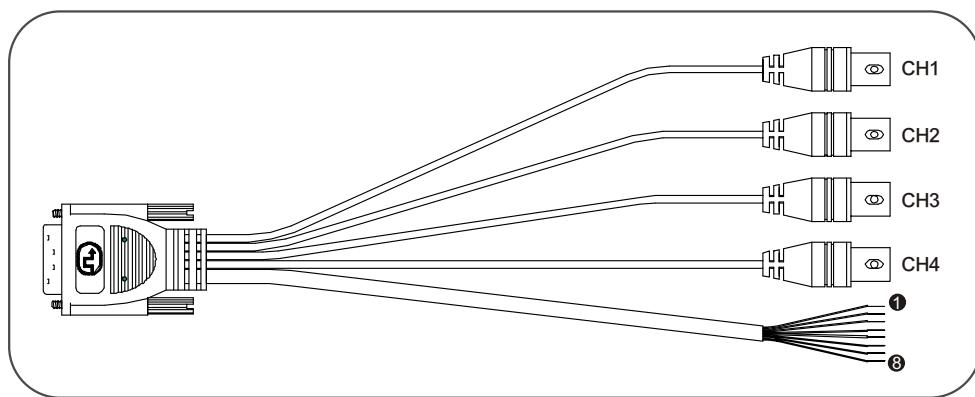
► Favor High Frame Rate [Shift+4]

In this mode, the DVR will send relatively low quality image stream to the client. But you can get higher frame rate.

► Favor Highest Frame Rate [Shift+5]

In this mode, the DVR will send lowest quality image stream. But you can get the best frame rate that the DVR can send with the connection environment.

■ ALARM & LOOPING CABLE



①	BROWN	ALM-CH1
②	RED	ALM-CH2
③	ORANGE	ALM-CH3
④	YELLOW	ALM-CH4
⑤	GREEN	ALM-GND
⑥	BLUE	RLY-COM
⑦	BLACK	RLY-NC
⑧	WHITE	RLY-NO



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